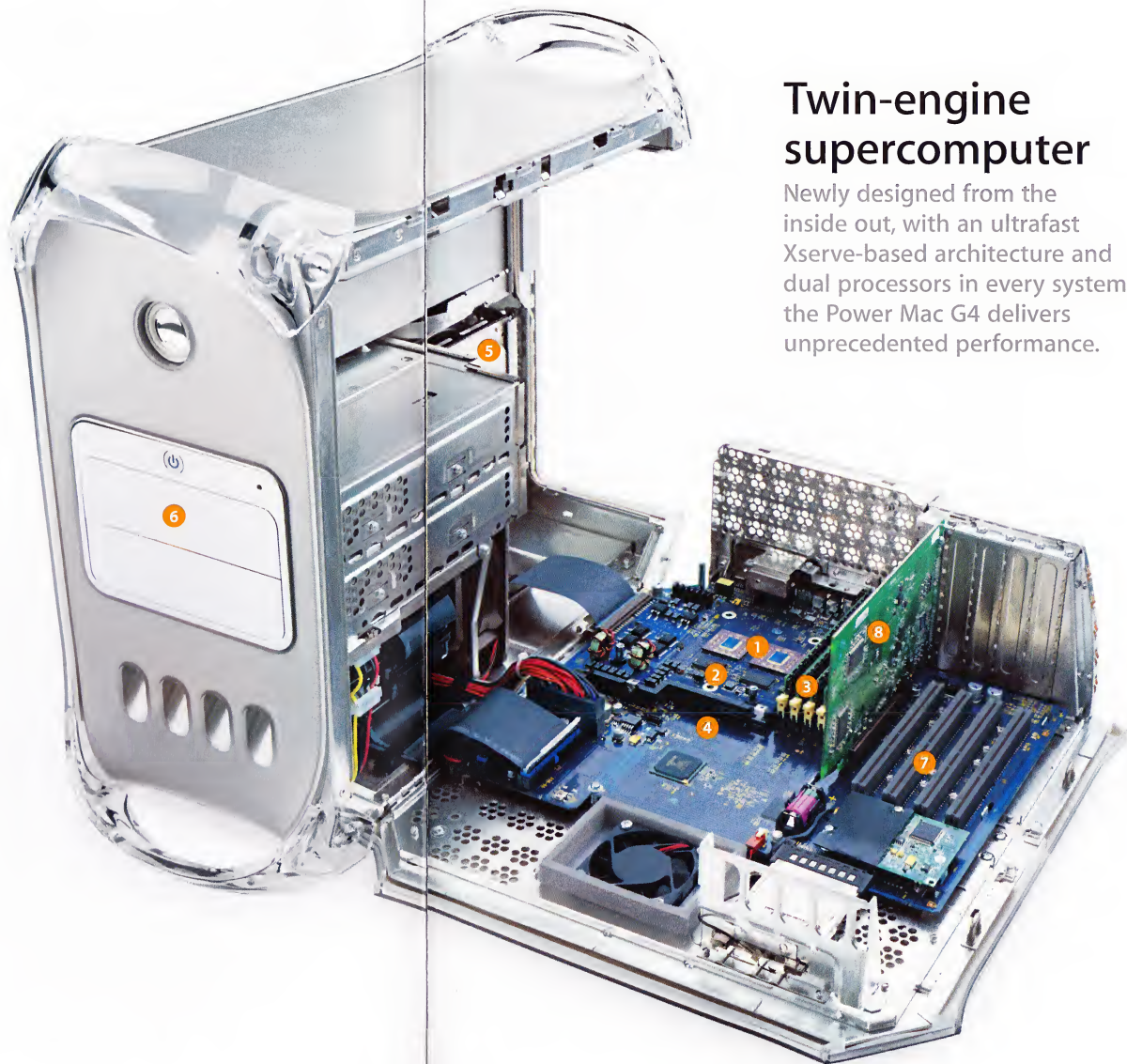# Power Mac G4

1. **Dual PowerPC G4 Processors**
G4 processors at up to 1.25GHz for performance up to 18.3 gigaflops

2. **L3 Cache**
Ultrafast dedicated memory feeds processors with data at up to 4GB per second

3. **Up to 2GB DDR SDRAM**
Provides memory bandwidth to the system at up to 2.7GB per second

4. **Faster System Bus**
New system controller for fast data transfer with clock speeds up to 167MHz

5. **Four Drive Bays**
Internal expansion for up to half a terabyte of high-performance storage, with Mac OS X RAID for striping and mirroring

6. **SuperDrive**[1]
Power to read, author, and burn DVDs and CDs, plus a second optical drive bay

7. **Five Slots**
One AGP 4X and four open PCI slots for specialized graphics, video, and audio capabilities

8. **Advanced Graphics, Dual Displays**
ATI Radeon 9000 Pro or NVIDIA GeForce4 MX with next-generation graphics and support for two all-digital Apple displays[2]
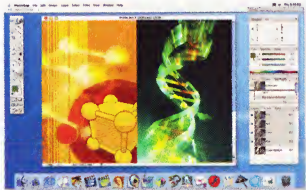
Twin-engine supercomputer

Newly designed from the inside out, with an ultrafast Xserve-based architecture and dual processors in every system, the Power Mac G4 delivers unprecedented performance.

The Power Mac G4 gives you the power to excel in everything from art to science to business.
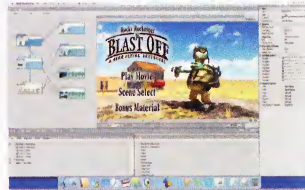
Video Editing: **Final Cut Pro 3**
- Dual processors and symmetric multi-processing combine for superfast real-time editing and effects rendering.
- Dual Apple displays allow users to spread out timelines, assets, and video windows.
- Up to 2GB of memory, four hard drive bays, and four open PCI slots support digital video, standard-definition, and high-definition editing solutions.
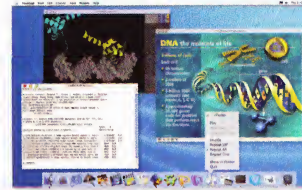
Design and Publishing: **Adobe Photoshop 7**
- Photoshop renders images up to 90 percent faster on the dual processor Power Mac G4 than on the fastest Pentium PC.
- Mac OS X v10.2 enhances digital workflow with ColorSync, AppleScript automation, PDF support, and robust multitasking.
- Apple's all-digital flat-panel displays deliver razor-sharp images and deeply saturated colors and allow accurate color calibration.

DVD Authoring: **DVD Studio Pro**
- The dual processor Power Mac G4 encodes DVD video 43 percent faster than a 2.53GHz Pentium 4 PC.
- Built for Mac OS X, DVD Studio Pro features unprecedented stability and high-quality MPEG-2 authoring.
- With the versatile SuperDrive, the Power Mac burns projects or archives assets to DVD or CD.

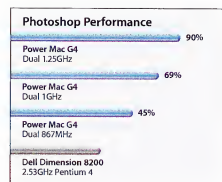### Science and Technology: **A/G BLAST**
- Using BLAST, the Power Mac G4 performs DNA analysis up to 440 percent faster than the fastest Pentium 4 PC.
- Mac OS X runs UNIX and productivity applications like Microsoft Office on the same system.
- Dual processors with Velocity Engine accelerate processor-intensive applications used for scientific analysis.
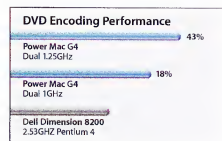
Music and Audio: **Logic Audio**
- Dual processor configurations support more simultaneous channels, plug-ins, and polyphony than ever before.
- Mac OS X provides high-definition 32-bit, 96kHz digital audio, including DSP and virtual instrument plug-ins.
- FireWire and USB connect multichannel audio and MIDI devices; stereo in and out jacks connect analog devices.
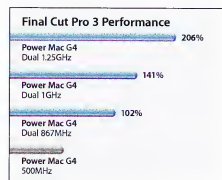
Technical Specifications

Processing and memory

- Dual 867MHz, 1GHz, or 1.25GHz PowerPC G4 processors
- Velocity Engine vector processing unit
- Full 128-bit internal memory data paths
- Powerful floating-point unit supporting single-cycle, double-precision calculations
- Data stream prefetching operations supporting four simultaneous 32-bit data streams
- 256K on-chip L2 cache running at processor speed
- Up to 2MB DDR SRAM L3 cache per processor with up to 4-GBps throughput
- Up to 167MHz system bus supporting over 1.3-GBps data throughput
- 256MB or 512MB of PC2100 or PC2700 DDR SDRAM main memory
- Four DIMM slots supporting up to 2GB of DDR SDRAM using one of the following[4]:
- 256MB DIMMs (64-bit-wide, 128-Mbit)
- 512MB DIMMs (64-bit-wide, 256-Mbit)

Graphics and display support

- One of the following graphics cards installed in a dedicated AGP 4X graphics slot:
- NVIDIA GeForce4 MX graphics card with 32MB of DDR SDRAM
- ATI Radeon 9000 Pro graphics card with 64MB of DDR SDRAM
- NVIDIA GeForce4 Ti graphics card with 128MB of DDR SDRAM (build-to-order option)
- Support for digital resolutions up to 1920 by 1200 pixels and analog resolutions up to 1600 by 1200 pixels
- ADC and DVI connectors; DVI to VGA adapter included
- Dual display support for extended desktop and video mirroring modes
- Support for up to two Apple displays[2]

Storage and expansion

- Four 3.5-inch hard drive expansion bays
- One 7200-rpm Ultra ATA/100 drive preinstalled in standard configurations: 60GB, 80GB, or 120GB[5]
- Support for up to four internal ATA drives (two Ultra ATA/100 and two Ultra ATA/66)
- Support for up to four internal SCSI drives (requires PCI SCSI card, sold separately)
- Support for a combination of internal ATA and SCSI drives (total of four)
- One of the following optical drives:
- SuperDrive (DVD-R/CD-RW); writes DVD-R discs at 2x speed, reads DVDs at 6x speed, writes CD-R discs at 8x speed, writes CD-RW discs at 4x speed, reads CDs at 24x speed
- Combo drive (DVD-ROM/CD-RW); reads DVDs at 8x speed, writes CD-R discs at 16x speed, writes CD-RW discs at 10x speed, reads CDs at 32x speed
- Optional Combo drive in second optical drive bay
- Four open full-length 64-bit, 33MHz PCI slots
- One AGP 4X slot with graphics card installed

Communications

- 10/100/1000BASE-T Ethernet connector (RJ-45)
- Built-in antennas and card slot for optional 11-Mbps AirPort Card; IEEE 802.11b compliant[6]
- Built-in 56K V.92 modem[7]

Peripherals and audio

- Two 400-Mbps FireWire ports[8] (15W total power)
- Four USB ports (two on system, two on keyboard)
- Front headphone jack
- Built-in speaker
- Stereo audio line in and line out minijacks
- Apple speaker minijack for connection to optional Apple Pro Speakers

Size and weight

- Height: 17.0 inches (43.2 cm)
- Width: 8.9 inches (22.7 cm)
- Depth: 18.4 inches (46.8 cm)
- Weight: 42 pounds (19.1 kg)[9]

[1]Selected models. [2]Second Apple flat-panel display requires Apple DVI to ADC Adapter, sold separately. [3]Power Mac G4 with iDVD; Dell Dimension 8200 with Sonic DVDit Professional Edition and Ligos encoder. [4]999MB maximum per application in Mac OS 9. [5]1GB = 1 billion bytes; actual formatted capacity less. [6]Wireless Internet access requires AirPort Card, AirPort Base Station, and Internet access (fees may apply). Some ISPs are not currently compatible with AirPort. Range may vary with site conditions. [7]Appropriate ISP and telephone services required. Your ISP may not support all V.92 features. Modem will function according to V.90 standards if V.92 services are not available. Actual modem speeds lower. [8]Actual rates will vary. [9]Weight varies by configuration and manufacturing process.

Tests performed by Apple in August 2002.

Power Mac G4 Configurations

Model	M8787	M8689	M8573
Processor	Dual 867MHz PowerPC G4	Dual 1GHz PowerPC G4	Dual 1.25GHz PowerPC G4
L3 cache	1MB DDR SRAM per processor	1MB DDR SRAM per processor	2MB DDR SRAM per processor
System bus	133MHz	167MHz	167MHz
Main memory (2GB maximum)	256MB PC2100 (266MHz) DDR SDRAM	256MB PC2700 (333MHz) DDR SDRAM	512MB PC2700 (333MHz) DDR SDRAM
Hard drive	60GB Ultra ATA/100; 7200 rpm*	80GB Ultra ATA/100; 7200 rpm*	120GB Ultra ATA/100; 7200 rpm*
Optical drive	Combo (DVD-ROM/CD-RW)	SuperDrive (DVD-R/CD-RW)	
Graphics support	NVIDIA GeForce4 MX with 32MB of DDR SDRAM	ATI Radeon 9000 Pro with 64MB of DDR SDRAM	
Expansion slots and bays	Four open 64-bit, 33MHz PCI slots; AGP 4X slot with graphics card installed; four internal hard drive bays (one occupied); two optical drive bays (one occupied)		
Ports	Two FireWire, four USB, front headphone minijack and speaker, rear Apple speaker minijack, audio line in, audio line out, ADC and DVI connectors for dual display support		
Networking	Built-in 10/100/1000BASE-T Ethernet and 56K modem**; AirPort ready		
Software	Mac OS X, Mac OS 9, QuickTime, iChat, iMovie, iPhoto, iTunes, iDVD (requires SuperDrive), DVD Player, Mac OS X Mail, Microsoft Internet Explorer, Developer Tools, and additional third-party applications		
Included	Apple Pro Keyboard, Apple Pro Mouse, DVI to VGA adapter, modem cable		

Internet access requires a compatible ISP; fees may apply. Product contains electronic documentation. Backup copy of software is provided on CD-ROM. *1GB = 1 billion bytes; actual formatted capacity less. **Actual modem speeds lower.

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